

IBM Tealeaf cxConnect for Web Analytics
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*cxConnect for Web Analytics
Administration Manual*



Note

Before using this information and the product it supports, read the information in “Notices” on page 27.

This edition applies to version 9, release 0, modification 0 of IBM Tealeaf cxConnect for Multivariate Testing and to all subsequent releases and modifications until otherwise indicated in new editions.

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cxConnect for Web Analytics Administration Manual

IBM Tealeaf cxConnect for Web Analytics enables easy integration of Tealeaf session data with third-party web analytics applications to reveal trends and anomalies while leveraging your enterprise's investments. Through these third-party suites, web analytics can review reports and drill-down into Tealeaf sessions for further investigation. You may also submit session segments that are generated from your Web Analytics suite to Tealeaf to create a matching set of sessions within Tealeaf.

The IBM Tealeaf cxConnect for Data Analysis product line contains the following products:

- "cxConnect for Data Analysis Administration Manual" in the *IBM Tealeaf cxConnect for Data Analysis Administration Manual*
- cxConnect for Web Analytics Administration Manual
- "cxConnect for Voice of Customer Administration Manual" in the *IBM Tealeaf cxConnect for Voice of Customer Administration Manual*
- "cxConnect for Multivariate Testing Administration Manual" in the *IBM Tealeaf cxConnect for Multivariate Testing Administration Manual*

Chapter 1. cxConnect for Web Analytics Overview

IBM Tealeaf cxConnect for Web Analytics enables easy integration of Tealeaf session data with third-party web analytics applications to reveal trends and anomalies while leveraging your enterprise's investments.

Note: IBM Tealeaf cxConnect for Web Analytics is a separately licensable component of the IBM Tealeaf cxConnect for Data Analysis product from Tealeaf. please contact your IBM Tealeaf representative.

When Tealeaf data is integrated into these suites, your web analysts can review existing funnel reports and drill down into Tealeaf sessions for further investigation. In this manner, Tealeaf's rich data set provides aggregated insight and the support details down to the individual field.

From any of the web analytics products listed below, you can define a session segment based upon search criteria you provide. This query is submitted to the IBM Tealeaf CX server via the Segment Builder Service, and IBM Tealeaf cxConnect for Web Analytics automatically generates a session segment containing the matching set of sessions.

- See "Segment Builder Service" in the *IBM Tealeaf cxConnect for Web Analytics Administration Manual*.

From this segment, you can replay individual sessions or perform further analysis on the segment.

Chapter 2. Integration with Tealeaf through cxConnect

This document describes the methods for integrating third-party applications with the IBM Tealeaf CX platform using IBM Tealeaf cxConnect for Data Analysis. The available methods for integration are as follows:

Table 1. Integrating with Tealeaf through cxConnect

Method	IBM Tealeaf cxConnect for Data Analysis Product	Description
Replay Link	Voice of Customer	Allows replay of a single session. See cxConnect Integration through replay links.
Data Insertion	Voice of Customer	Allows external data (events) to be inserted into a session through a customizable image request. See "cxConnect Integration through data insertion."
Segment File	Web Analytics	Allows creation of a Tealeaf® session segment from a list of supplied session identifiers. See "cxConnect Integration through Segment Files" in the <i>IBM Tealeaf cxConnect for Web Analytics Administration Manual</i> .

cxConnect Integration through data insertion

The data insertion method of integration is used to associate website content and customer experience data, delivered by third-party and/or internal systems, with Tealeaf captured sessions, where the information to integrate is not included in the HTTP stream captured by Tealeaf.

The data association is accomplished by making a request, which includes the data to be associated as query string parameters, for an image file located on the web infrastructure automatically captured by Tealeaf.

Note: The only modification to the requested web infrastructure is the inclusion of the image file. The image file must be named `tl_img.html`.

For performance and data optimization reasons, by default the Tealeaf system filters all requests for common binary formats, such as `.gif`, and drops them from the captured data stream. To bypass this filter, the `.html` extension is used for the image file, ensuring that the request and all included data passes through the Tealeaf system.

The URL for the image request is as follows:

```
http://<HostPathToImage>/tl_img.html?Source=<Source>&Event=<Event>&SidName=
<SidName>&SidValue=<SidValue>&Custom1=<Custom1>&Custom2=<Custom2>
```

Note: Any number of custom name/value pairs can be included in the query string parameters of the request. In all cases, values without spaces are preferred.

Table 2. cxConnect Integration through Data Insertion

Parameter	Required?	Type	Description
HostPathToImage	Y	[string]	Path to the t1_img.html file on the target web infrastructure.
Source	N	[string]	Used to identify the third-party or internal system that is generating the request.
Event	N	[string]	Used to identify the type of event of the request. (i.e. start, complete, etc.)
SidName	N	[string]	Used to identify the name of the cookie used for sessionization in the Tealeaf system. Note: If session cookie name/value pairs are not automatically associated with the request. If they are overwritten, then the SidName parameter is required to associate the request with its originating session. Otherwise, the image request will become a one-hit session in Tealeaf and may be dropped.
SidValue	N	[string]	Used to identify the value of the cookie used for sessionization in the Tealeaf system. Note: If session cookie name/value pairs are not automatically associated with the request or if they are overwritten, then the SidValue parameter is required to associate the request with its originating session. Otherwise, the image request will become a one-hit session in Tealeaf and may be dropped.

cxConnect integration through segment files

The segment file integration method is used to automate the creation of a Tealeaf session segment that corresponds to a segment defined in a third-party system.

The integration and automation is accomplished by supplying a file containing a list of values that identify unique customer sessions to the configured Tealeaf Segment Builder. Once created by the Segment Builder, the session segment is available for review and analysis via the Tealeaf Portal.

- For more information on configuring Segment Builder, see the Integration section of "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.

Examples

The following examples show how session segments are created in IBM Tealeaf.

Example 1

In the following example, we show how a session list generated from Google Analytics is used to create a session segment in Tealeaf.

The following JavaScript functions enables the cookie value used for identifying unique customer sessions in Tealeaf to be included in and exported from Google Analytics reports:

- We assume the cookie used for identifying unique sessions is named TLTSID and the Google Analytics tracker ID is UA-4040192-1.

```
<!-- BEGIN TEALEAF INTEGRATION CODE -->
<script type="text/javascript">
<!--// Begin example Tealeaf integration
// Function retrieves the specified cookie value used for identifying unique
// customer sessions.

function TLGetCookie(c_name)
{if (document.cookie.length>0)
{
  c_start=document.cookie.indexOf(c_name + "=");if (c_start!==-1)
  {
    c_start=c_start + c_name.length+1;
    c_end=document.cookie.indexOf(";",c_start);if (c_end==-1) c_end=document.cookie.length;return unescape(document.cookie.substring(c_start,c_end));
  }
}return "";
}
-->
</script>
<!-- END TEALEAF INTEGRATION CODE -->

<!-- BEGIN GOOGLE ANALYTICS CODE -->
<script type="text/javascript">var gaJsHost = (("https:" == document.location.protocol) ? "https://ssl." :
"http://www.");
document.write("<script src='"+ gaJsHost
+ "google-analytics.com/ga.js' type='text/javascript'></script>" );
</script>
<script type="text/javascript">var pageTracker = _gat._getTracker("UA-4040192-1");
pageTracker._initData();

_var TLSessionizationName='TLTSID';
_var TLSessionizationValue=TLGetCookie(TLSessionizationName);

pageTracker._setVar("TLsessID/" + TLSessionizationValue);
</script>
<!-- END GOOGLE ANALYTICS CODE -->
```

By including the `pageTracker._setVar("TLsessID/" + TLSessionizationValue);` tracking call, we are creating a user-defined segment in Google Analytics for data analysis and eventual export.

Currently, the Google Analytics limitation for data export is 50,000 rows.

To include the aforementioned value used to define unique visits:

1. You must select the User Defined segment option. This option displays all TLsessID/ values in the first column of the report.
2. To ensure that the first 50,000 values are exported (not just those that are currently displayed on the screen), you must append `&limit=50000` to the URL GET parameters and execute the HTTP GET prior to completing a .csv export.
3. After export, you must remove TLsessID/ from the dataset.
4. You must place the clean file in the configured Segment Builder directory.

Example raw export file

```
User Defined Value,Visits,Pages/Visit,Avg. Time on Site,% New Visits,
Bounce Rate,Visits,Completed Orders,Goal Conversion Rate,
Per Visit Goal Value,Visits,Revenue,Transactions,Average Value,
Ecommerce Conversion Rate,Per Visit Value
TLsessID/293E9A5E5CAF105C000DEE7EE2F16E35,8,1,0,1,0,8,0,0,0,8,0,0,0,0,0
TLsessID/ECFEF562531B10530476BA91ED9DBC59,4,5.5,45.5,0,0,4,0,0,0,4,0,0,0,0,0
TLsessID/0DBDEE1C5A7D105A0573E16571F7F785,2,3,12,0.5,0,2,0,0,0,2,0,0,0,0,0
TLsessID/138F2D98586F105800E7CC06F65018AE,2,4,208,0.5,0,2,0,0,0,2,0,0,0,0,0
TLsessID/277D7D6C527C1052088CADA14E296CFB,2,12,135,0,0,2,0,0,0,2,0,0,0,0,0
```

TLSESSID/347DB4E45279105207DDDEE1E6FF8C80,2,5,197.5,0,0,2,0,0,0,2,0,0,0,0,0
TLSESSID/3D476522570910570004E16571F7F785,2,3.5,85.5,0,0,2,0,0,0,2,0,0,0,0,0
TLSESSID/4A28CAFE526010520213B3668C2E53B0,2,3.5,36.5,0,0,2,0,0,0,2,0,0,0,0,0

Example export file post data cleansing

293E9A5E5CAF105C000DEE7EE2F16E35
ECFEF562531B10530476BA91ED9DBC59
0DBDEE1C5A7D105A0573E16571F7F785
138F2D98586F105800E7CC06F65018AE
277D7D6C527C1052088CADA14E296CFB
347DB4E45279105207DDDEE1E6FF8C80
3D476522570910570004E16571F7F785
4A28CAFE526010520213B3668C2E53B0

Example 2 - Omniture

1. Tag TLSESSID
2. Define segment in Omniture.
3. Define DataWarehouse export task in Omniture.
 - a. FTP location
4. Define company procedure for retrieving, cleaning, and moving export.

Example 3 - Coremetrics

1. Tag TLSESSID or Client Session ID conversion event.
 - a. Add JS file that includes Client Session ID conversion event as part of cmCreateTechPropsTag function.
 - b. Add cmCreateConversionEventTag(TLSESSID, "2", "TLSESSIDEvent", "100").
2. Define segment in Coremetrics®.
3. Define FTP destination in Coremetrics.
4. Define Key Segment in Coremetrics.
5. Define Export Builder task in Coremetrics:
 - a. Recurring
 - b. Completed Events
 - c. Session-based
6. Define company procedure for retrieving, cleaning, and moving export.

Configuring Tealeaf

Some additional parameters need to be configured to complete the integration. See "Segment Builder" for more information.

Segment Builder

To complete the configuration of the segment file integration method the Segment Builder parameters must be set via the Tealeaf Portal.

- For more information, see the Integration section of "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.

Chapter 3. Segment Builder Service

The Tealeaf Segment Builder service can be used to create session segments based on externally specified queries of Tealeaf session data. For example, a third-party application can specify a set of queries in a file, which are then executed to generate a new session segment.

Note: The Segment Builder Service is a component of IBM Tealeaf cxConnect for Web Analytics, a separately licensable component of the IBM Tealeaf CX system. please contact your IBM Tealeaf representative.

Uploading Segment queries

This service polls a preconfigured directory inside the Tealeaf install directory for query files, executes the queries, and assembles the returned session data into a session segment. The segment is then available through the Portal.

- When the license key permits use of the service, the Segment Builder Service is started by the Data Service automatically.

via Portal

The preferred method is to upload the file to the directory via the Tealeaf Portal. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.

via File Directory

Prepared segment queries are retrieved from the following directory:

<Tealeaf install directory>\Integration\Segments

Operations

When the Segment Builder polls the Segments directory, it attempts to turn the .txt, .csv, or .zip files in the directory into sets of queries of the Tealeaf session dataset. If the process is successful:

1. The segment becomes available through the Managing Session Segments page. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.
2. The source file is moved to the following directory:
<Tealeaf install directory>\Integration\Completed
3. If there is a failure, the file is moved to the completed directory and the error is logged in the log file. In this case, no session segment is created.

Creating Segments for integration

The Segment Builder service can create segments out of source files in the following formats:

- .txt
- .csv
- .zip, which contains content in .txt or .csv format

Query options

If desired, you can specify the import settings for the queries in the session file. Otherwise, the default settings are applied.

Note: Unless specified in the import file, query parameters for the imported segments utilize the default parameter values as configured in the Portal. If you are regularly using the Segment Builder Service to import segments from a single external system, you should configure the Portal default values to support this integration, instead of manually configuring each import file to insert these values, as described below. For more information on the definitions of each setting and its default value, see "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.

The following is an example query, as it would appear in a text file. In this example below, the search field that is queried is ordernum for the values A123, B456, or C789.

In the file, each query must be listed on a single, separate line:

```
#Options
#!MD5=N
#!DATA_COLUMN=0
#!DELIMITER=|
#!ID_PREFIX=NOTHING
#!SEGMENT_NAME=Order Number Search
#!DATE_SPAN=3
#!SEARCH_TERM=ordernum
#!SEGMENT_OWNER=admin
#!ID_PREFIX_USE=N
#!SHARE_SEGMENT=N
A123
B456
C789
```

Option Description

MD5 If set to Y, an MD5 hash is applied to the query string to normalize it for query execution.

DATA_COLUMN

The column in the data file that contains the search term values. If each line is a single value, then set this value to 0.

DELIMITER

The column delimiter in the query file. The following values are supported:

- | (pipe)
- , (comma)
- (tab) - use keyword TAB

ID_PREFIX

The integration ID prefix that is used to identify search terms. If no integration ID prefix is used (ID_PREFIX_USE=N), set this value to NOTHING.

- For more information on this value, see "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.

SEGMENT_NAME

The name of the segment as it appears in the Portal after a successful import.

DATE_SPAN

The number of days preceding the current date that are searched for matching data.

SEARCH_TERM

The variable name in the request data for which to search for matching values.

SEGMENT_OWNER

After import, this value identifies the owner of the segment among Tealeaf users.

ID_PREFIX_USE

Set this value to Y to use an integration ID prefix to mark the beginning of fields in the data.

- The value of the prefix is defined in the ID_PREFIX option above.
- The end of each field's data is defined by a delimiter (defined in the parameter DELIMITER above) or the end of the line.

SHARE_SEGMENT

To share this segment with all Tealeaf users after it is successfully imported, set this value to Y.

values You may specify values for which to search the field in SEARCH_TERM as individual lines for each value.

Query format

Each line in a segment file represents a different query of the Tealeaf database. The following options and settings dictate format:

Formatting Options

Description

MD5=N Data in text file for the search query is used. The MD5 hash is not applied before the search begins.

DATA_COLUMN=0

When this value is set to 0, the resulting file is expected to be a single column of values.

DATE_SPAN=20

The query is created to search the preceding 20 days of data.

SEARCH_TERM

This value indicates the request variable field for which to search for values matching the column of data.

ID_PREFIX=N

No integration ID prefix is in use. The column of data just contains clear-text values.

The following options and settings are not relevant to this query:

- DELIMITER
- ID_PREFIX=NOTHING

After the query has executed and returned some sessions, the following settings are applied to the generated segment:

Option Description

SEGMENT_NAME

The user-readable name (Testing only in the above example) appears in the Managing Session Segments page.

SEGMENT_OWNER

The Tealeaf user ID of the owner of the generated segment: joeuser.

SHARE_SEGMENT

Since this value is set to N, the segment is a private segment visible only to joeuser and Tealeaf administrators.

Monitoring Segment Builder Service

You can monitor the progress of the Segment Builder Service through the Managing Session Segments page in the Tealeaf Portal.

The service detects any new files in the segment directory and processes them immediately. When the queries are finished, the assembled session segment is available through the Managing Session Segments page.

Note: For any imported segment in the Managing Session Segments page, verify that the Session Count column contains a non-zero value. In this column, a value of 0 indicates that the queries failed.

See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.

Configuring Segment Builder Service

All options for configuring the Segment Builder service are available through the Portal.

1. In the Portal menu, select **Tealeaf > Portal Management**.
2. In the left pane, select **IBM Tealeaf CX Settings**.
3. Select the Integration category.

See "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.

Access permissions

For more information on configuring access permissions for segments, see "Report Access Permissions" in the *IBM Tealeaf cxImpact Administration Manual*.

Chapter 4. IBM Digital Analytics Integration Solution

IBM Tealeaf supports integration with IBM® Digital Analytics. By integrating IBM Tealeaf and IBM Digital Analytics you enable access to Tealeaf session data and session replays from reports that are generated by IBM Digital Analytics.

IBM Digital Analytics removes barriers for going from analytics to action so marketers can increase revenues by targeting prospective customers with relevant content across digital channels. IBM Digital Analytics helps marketers increase visitor acquisition and retention rates, improve multichannel strategy formation and implementation, and optimize budget allocation and marketing mix, including email marketing, mobile marketing, display advertising, and social media marketing. For more information about IBM Digital Analytics, visit <http://www.ibm.com/software>.

IBM Digital Analytics integration solution overview

The segment file integration method is used to automate the creation of a Tealeaf session segment that corresponds to a segment defined in IBM Digital Analytics.

The integration is accomplished by supplying a data file that contains a list of values that identify unique customer sessions to the configured Tealeaf Segment Builder. For more information about the segment builder, see "Segment Builder Service" in the *IBM Tealeaf cxConnect for Web Analytics Administration Manual*.

For the IBM Digital Analytics integration solution, IBM Digital Analytics provides a data file which is read by Tealeaf. Tealeaf uses this data to format and return session information back to IBM Digital Analytics. The integration enables you to create session reports in Tealeaf and then push the data to IBM Digital Analytics. Once the data is pushed to IBM Digital Analytics, the user can generate reports in IBM Digital Analytics that provide links to Tealeaf session data and replays.

Configuring IBM Tealeaf for IBM Digital Analytics integration

Note: Before you configure IBM Tealeaf for integration with IBM Digital Analytics, create a shared folder on an FTP server. Both applications use the folder to read and write data that is shared between the applications.

To enable IBM Digital Analytics integration in IBM Tealeaf:

1. Create a user account and a shared folder on an FTP Server where IBM Tealeaf and IBM Digital Analytics can read and write data files.
2. Configure the IBM Tealeaf CX Settings for integration with IBM Digital Analytics. by navigating to the Tealeaf Portal, then clicking **CX Settings > Integration**. For more information on configuring the integration settings, see "CX Settings" and "Integration" in the *IBM Tealeaf cxImpact Administration Manual*.
 - a. Open the Tealeaf Portal.
 - b. Click **CX Settings > Integration**.

Note: Click **Save** each time you enter a value for a setting. If you do not click **Save**, the value will be lost when you click another setting.

- c. Edit each of the IBM Digital Analytics settings by clicking on the setting; then, enter the value for the setting and click **Save**.

Note: The values for the FTP settings use the same user account settings that were created in step 1 on page 11.

Additional configuration is required in IBM Digital Analytics. For more information on configuring IBM Digital Analytics to integrate with IBM Tealeaf, see the documentation that comes with IBM Digital Analytics.

After you have configured IBM Tealeaf for IBM Digital Analytics integration, you can export session searches to IBM Digital Analytics. For more information on creating and exporting session searches, see "cxReveal - Searching for Sessions" and "Exporting Search Results" in the *IBM Tealeaf cxReveal User Manual*.

Data collection for IBM Digital Analytics

Tealeaf creates a data file that holds the session information and metadata for the segment. This file is saved to the FTP server that was defined when the integration settings for IBM Digital Analytics. For more information on configuring the integration settings for IBM Digital Analytics, see "Configuring IBM Tealeaf for IBM Digital Analytics integration" on page 11.

The data file contains the following data that can be read by IBM Digital Analytics:

- The name of the segment.
- The email address that is used for notification when the session IDs for the Tealeaf segment are sent to the FTP server and are available for use in IBM Digital Analytics.
- ID of each Tealeaf customer session.
- The first and last time stamps of each session.

For an example of the Tealeaf data file that is exported for IBM Digital Analytics, see "IBM Digital Analytics data examples."

IBM Digital Analytics data examples

Segment File example

The following is an example of the data that Tealeaf exports for IBM Digital Analytics.

```
TL_SESSION_ID,TL_START_TS,TL_END_TS
43F23716C901C5AAD4D31521503DBE10,1363756101,1363756766
5DD66F4484F4FABD751F8B9416259797,1363760019,1363760443
261FE68588637CDA80BEA928EC865BD1,1363756600,1363756916
F895E4DD56AB0AA0AF7C95DAD85C14CC,1363758338,1363758338
42699EC62F5A27D7D96211BC70476377,1363757469,1363757469
4FB3E23822EEE2CFC2FE4D6D27A52C67,1363759653,1363759888
AA7786F92731D854477D6E3BA45C7E58,1363760287,1363760699
21B6D808ABCDDF94E46C4A6FE55A2801,1363756869,1363757280
```

Chapter 5. Omniture Integration Solutions

This document describes the methods for integrating the IBM Tealeaf CX platform with Omniture. The integration leverages the segment file integration approach.

Note: This integration solution requires the IBM Tealeaf cxConnect for Web Analytics product, a separately licensable component of the IBM Tealeaf CX system. please contact your IBM Tealeaf representative.

- **"Integration method 1 - segment file"** - Allows for the creation of a Tealeaf session segment from a file containing a list of supplied values.

Integration method 1 - segment file

The segment file integration method is used to automate the creation of a Tealeaf session segment that corresponds to a segment defined in a third-party system. The integration and automation is accomplished by supplying a file, containing a list of values that identify unique customer sessions, to the configured Tealeaf Segment Builder. Once created by the Segment Builder, the session segment is available for review and analysis via the Tealeaf portal.

Examples

For all examples, assume the following integration key parameters:

Prefix: TLTIID_

Delimiter: ,

See "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.

Example 1

The following example highlights how session segments are created in Tealeaf, based on daily scheduled reports that are generated by a business analyst.

In addition to being delivered to specific individuals via email, the daily reports are also placed on a shared internal directory. As part of the example, an internal process that copies the daily reports to the configured Tealeaf integration directory has already been defined and implemented. Every morning the business analyst reviews and analyzes the pre-build segment via the Tealeaf portal.

Example report (ScheduledDailyOrders20090117.csv)

```
CustomerId,IntegrationKey,Visits,Pages/Visit,AvgTime,Orders,Revenue
2313182512,TLTIID_293E9A5E5CAF105C000DEE7EE2F16E35,1,14.4,172.8,1,78.11
8388107683,TLTIID_ECFEF562531B10530476BA91ED9DBC59,2,20.1,215.07,3,64.12
6970467013,TLTIID_0DBDEE1C5A7D105A0573E16571F7F785,3,24,343.2,3,177.4
1466584925,TLTIID_138F2D98586F105800E7CC06F65018AE,3,28.8,429.12,3,169.22
6254196733,TLTIID_277D7D6C527C1052088CADA14E296CFB,1,18.4,97.52,3,83.69
7396376859,TLTIID_347DB4E45279105207DDDEE1E6FF8C80,2,24.9,488.04,2,58.47
9624778192,TLTIID_3D476522570910570004E16571F7F785,3,17.3,167.81,1,101.02
9710688245,TLTIID_4A28CAFE526010520213B3668C2E53B0,3,26.1,195.75,1,234.59
```

Steps

To view the session segments,

1. Log in to the Tealeaf Portal.

2. In the Portal menu, navigate to the Session Segments page by clicking **Analyze > Session Segments > Manage Session Segments**. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.
3. Click **View Session List** to review the customer sessions.

Example 2

The following example highlights how session segments are created in Tealeaf, based on ad-hoc reports. Example 2 articulates how a business analyst can manually import, then subsequently review and analyze, session segments via the Tealeaf portal.

Example Report (AdHocDailyOrders20090117.csv)

```
CustomerId,IntegrationKey,Visits,Pages/Visit,AvgTime,Orders,Revenue
2313182512,TLTIID_293E9A5E5CAF105C000DEE7EE2F16E35,1,14.4,172.8,1,78.11
8388107683,TLTIID_ECFEF562531B10530476BA91ED9DBC59,2,20.1,215.07,3,64.12
6970467013,TLTIID_0DBDEE1C5A7D105A0573E16571F7F785,3,24,343.2,3,177.4
1466584925,TLTIID_138F2D98586F105800E7CC06F65018AE,3,28.8,429.12,3,169.22
6254196733,TLTIID_277D7D6C527C1052088CADA14E296CFB,1,18.4,97.52,3,83.69
7396376859,TLTIID_347DB4E45279105207DDDEE1E6FF8C80,2,24.9,488.04,2,58.47
9624778192,TLTIID_3D476522570910570004E16571F7F785,3,17.3,167.81,1,101.02
9710688245,TLTIID_4A28CAFE526010520213B3668C2E53B0,3,26.1,195.75,1,234.59
```

Steps

1. Log in to the Tealeaf Portal.
2. Navigate to the Manage Session Segments page by clicking **Analyze > Session Segments > Manage Session Segments**. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.
3. Click **Import a segment** to begin importing a session segment.
4. After the session segment has been imported, you can review the segment.

Configuring Tealeaf Segment Builder

To complete the configuration of the segment file integration method the Segment Builder parameters need to be set through the Tealeaf portal.

For more information on the segment builder, see:

- "Segment Builder Service" in the *IBM Tealeaf cxConnect for Web Analytics Administration Manual*
- "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*

Configuration and usage in Omniture

This section describes the configuration and usage in Omniture.

Pre-requisites

- SiteCatalyst v13 or greater
- Available custom conversion variable (eVar)
- DataWarehouse (if monthly session count exceeds 500K)
- Discover (Optional)

Limitations

- SiteCatalyst limited to 500K unique values per eVar per month

Integration steps

1. Determine shared integration key to be used. Often, this key is the cookie used for sessionization in Tealeaf.
2. Modify web site tagging framework to pass integration key to a pre-defined variable in SiteCatalyst, which is often a custom eVar.

Note: Tealeaf recommends prepending TLTIID_ to the key. The custom conversion variable (eVar48) is populated with the integration key.

```
var IntegrationKey = "TLTIID_" + TLGetCookie("TLTSID");  
s.eVar48=IntegrationKey;
```

3. Add the integration key to the Integration settings in Tealeaf. See "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.
4. Configure a descriptive alias in SiteCatalyst for the variable used for integration.
5. **SiteCatalyst:** If you are using SiteCatalyst, configure the sub-relation for the variable used in the integration.
6. **DataWarehouse:** If you are using DataWarehouse, configure the FTP delivery destination.
7. If you are using FTP delivery, define an internal process for retrieving the DataWarehouse reports and moving them to the configured Tealeaf integration directory.

Usage through SiteCatalyst

1. Log into Omniture and navigate to SiteCatalyst.
2. During analysis of website performance, navigate to sub-relation report based on variable used for integration.

Note: The integration variable sub-relation must be pre-configured. See "Integration steps."

3. Download report data in CSV format and save file to local file system.
4. Log in to Tealeaf and import sub-relation report data using the **Import Segment** option of the Manage Session Segments screen. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.
5. After the segment builder process has completed, analyze and manage the customer experience and behavior of the visitor segment identified by the imported sub-relation report data.

Usage through DataWarehouse

1. Log in to Omniture and navigate to DataWarehouse.
2. Define one time, scheduled reports, or both reports to extract segments of interest.

Note: Reports must include the pre-determined integration variable. See "Integration steps."

Note: Reports configured for FTP delivery will leverage the pre-defined FTP retrieval process.

3. Log in to the Tealeaf Portal to analyze and manage the customer experience and behavior of the visitor segment identified by a pre-configured DataWarehouse report.

4. If DataWarehouse reports are configured for email delivery, download and import them into Tealeaf via the Import Segment option of the Manage Session Segments interface. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.
5. You can now analyze the segment.

Chapter 6. WebTrends Integration Solution

The section outlines a technique for integrating Tealeaf with your WebTrends Analytics solution. After an outline of the WebTrends solution set, the document focuses on methods of integration with WebTrends Analytics that uses the Segment Builder Service in Tealeaf to import segments of sessions generated by WebTrends.

- See "Segment Builder Service" in the *IBM Tealeaf cxConnect for Web Analytics Administration Manual*.

Overview of WebTrends

WebTrends was one of the pioneering solutions in the Web Analytics marketplace and has retained its leadership in that market. The solution set has evolved over time from a basic software-based hit counter into a complex enterprise Web Analytics solution that can be delivered in either a software as a service (SAAS) model or as an installed software product.

Current® WebTrends offerings

The current WebTrends suite has a number of product offerings in the Web Analytics space:

1. **WebTrends Analytics.** The core web analytics solution provided by WebTrends, this product is in use by the vast majority of WebTrends customers. It can be delivered in as hosted software as a service (known as WebTrends OnDemand) or as an installed software product.
2. **WebTrends Marketing Warehouse.** This foundation layer for WebTrends high-end visitor analysis modules is a relational SQL Server Data mart with a published schema.
 - It contains tables holding individual visitor records (typically identified through the use of WebTrends first party visitor cookie) and also "transaction" tables that log specific "events" that occur during a users visit (based on tags).
 - It contains lookup tables that can be populated from external systems (e.g. product SKU details, campaign details, customer names, addresses etc).
 - Warehouse data can be accessed through WebTrends new query tool that has a business abstraction layer for ease of use by business users or by writing SQL directly to the database (this is restricted if using the OnDemand version - have to get queries written by WebTrends and they charge for each query definition). Data extracts can also be scheduled and sent to FTP, email etc. The other access methods are Visitor Intelligence (see below) and Explore - which is a decision tree based segmentation tool.
 - Marketing Warehouse can be implemented as a hosted (OnDemand) or On-Premise software solution.
3. **WebTrends Visitor Intelligence.** Visitor Intelligence is an analysis layer based on Microsoft's Analysis Services OLAP technology. It allows a business user to slice and dice a predefined cube of data to segment and analyze visitor behavior.
 - Mostly used to identify micro-segments for targeted marketing campaigns, Visitor Intelligence is loaded on a scheduled basis a few times a day from the Marketing Warehouse database. It is most useful for small to medium eCommerce sites.

- Visitor Intelligence is ONLY available in hosted form (OnDemand).
 - Visitor Intelligence requires Marketing Warehouse.
4. **WebTrends Score.** This product is used to measure visitor engagement. Scores are attributed to individual visitors based on their activity on the website. The scores are stored in the Marketing Warehouse and can be queried from there or analyzed in the Visitor Intelligence cubes.
- This solution enables visitor segmentation based on engagement with the site or with specific areas (e.g. visitors who regularly shop for shoes).
 - There is no defined best practice on this form of scoring, and most organizations are still struggling to get the basics of web visitor segmentation implemented.
 - WebTrends Score requires Marketing Warehouse.

Integration example

For example purposes, this section focuses on integrating Tealeaf with the WebTrends Analytics, the flagship Analytics solution. It is also the most prevalent solution in use

Note: Tealeaf is technically capable of integrating with Marketing Warehouse. However, this integration solution has not yet been tested. For more information, please contact Tealeaf Professional Services.

WebTrends data collection

The most common method of data collection for WebTrends is to use JavaScript tagging.

- A standard JavaScript tag is inserted into the page, which is typically an include file called by <SCRIPT> tags in the page.
- Meta data to supply additional information about the page is implemented in the form of <META> tags in the <HEAD> section of the page.
- There is no need to create JavaScript variables within the <BODY> of the page itself.

For example, in WebTrends, pages can be assigned to **content groups**, which WebTrends uses to aggregate pages under a single reference. To assign a page to the Products content group, you would include the following <META> tag:

```
<META name=WT.cg_n content="Products"/>
```

There are a number of standard WebTrends <META> tag names that are used to populate reports around specific functionality in WebTrends. For example, for funnel steps use WT.s_i_x. For Revenue, use WT.tx_s, and so on.

It is also possible to populate completely custom <META> tags for any custom data on which you wish to report in WebTrends.

Note: It is currently best practice to use the WT.z prefix for these custom variables. The DCSext prefix can also be used.

Tealeaf integration with WebTrends Analytics

The Tealeaf integration method outlined below has been validated for the WebTrends Analytics product.

- Some steps below are required changes in the integration if the WebTrends solution is hosted.

Pre-Requisites

There are a number of pre-requisites for integrating your WebTrends solution with Tealeaf:

1. Any WebTrends Analytics product (software or OnDemand) that includes the Custom Reports capability. Supported products:
 - WebTrends Analytics Advanced Analysis (software)
 - WebTrends Analytics Advanced Marketing (OnDemand)
 - WebTrends Analytics Commerce Edition (OnDemand)
 - Any version of WebTrends Analytics with the additional Custom Reports pack applied to it.
2. JavaScript tagging must be used as the data collection method for WebTrends.
 - It is possible to use Web Server Logs as a data source for WebTrends on-premise software. This data collection method is not currently supported for WebTrends integration with Tealeaf.

Integration solution

To facilitate the integration, your web application must issue a session identifier that can be used by both Tealeaf and WebTrends. This session identifier needs to be inserted into the proper <META> tag for use by WebTrends. Tealeaf can be configured to extract and use this session identifier as Tealeaf's session identifier.

Defining this session identifier may require involvement with your web development team. For more information, please contact Tealeaf Professional Services.

The integration of WebTrends with Tealeaf depends on a custom <META> tag being implemented in each page of the web application that contains the session ID used by Tealeaf. This inclusion enables reports to be created in WebTrends that can be exported as session segments, which can be imported into Tealeaf through the Portal on an ad-hoc basis or in batch mode using the Tealeaf Segment Builder Service.

See "Segment Builder Service" in the *IBM Tealeaf cxConnect for Web Analytics Administration Manual*.

Integration <META> tag

It is recommended that you use a custom <META> tag named WT.z_tl_sessionid. This tag should be used to capture the Tealeaf Session ID.

On each page, this identifier is implemented as a <META> tag that looks like following:

```
<META name=WT.z_tl_sessionid content="_insert session identifier here_"/>
```

When this tag has been implemented and deployed to each appropriate page on the web application, WebTrends begins collecting the report data necessary for export.

Report creation

When the data has been collected, the next step is to create the report on which the session segment export is based.

WebTrends Analytics includes a custom report building facility. Within the custom report builder, the WebTrends user must complete the following steps:

1. Create a Custom Dimension based on the `WT.z_t1_sessionid` parameter. This dimension should be configured to count on the first occurrence during the Visit.
2. Create a Custom Report with the new Custom Dimension as the first dimension in the report.
 - It is possible to have up to 2 dimensions in a single report, and you can also apply custom filters to the report.
 - It is not important which metric is used in the report. Useful examples are Visits or Page Views.

Table limits

WebTrends Analytics reports are limited by a concept called table limits. In WebTrends, **table limits** place limits around the report so that the reporting interface and underlying proprietary data structures provide a high level of performance. These parameters limit the amount of data that can be populated into the report at any one time

- When the limit is reached, WebTrends either auto-trims the least popular entries or stops populating with new data, depending on the report structure.

A report containing session identifiers as the first dimension is likely to be very large, and the table limits are likely to be encountered very quickly. If the report reaches its table limits, the course of action depends on whether the hosted or software version of WebTrends is being used:

- **Hosted (WebTrends OnDemand).** The WebTrends Administrator must contact WebTrends Technical Support and ask them to increase the limits on the specific reports used to export session segments for Tealeaf. For more information on configuring the limits, see “Reporting best practices for Tealeaf Integration reports.”
- **Installed software.** Your WebTrends Administrator can modify table limits for reports and can increase them for specific reports. However, you should still review and following the best practices listed below.

Reporting best practices for Tealeaf Integration reports

Recommended practices for Tealeaf Integration Reports:

1. Create a separate WebTrends Profile for the Tealeaf Integration reports. A WebTrends profile is a set of standard and custom reports that have common rules and settings applied to them when they are processed. A Integration profile specific to Tealeaf should be created. It should only contain the Tealeaf Integration reports.
2. Set the WebTrends Profile to create reports based at the smallest time interval as possible. You can configure a profile to calculate and aggregate data on a daily, weekly, monthly, quarterly or yearly basis. Verify that the profile only aggregates at a daily level or at the smallest time interval as possible. When aggregating on a daily basis, the table limits are re-cycled each day, which minimizes the chance of reaching table limits for the report.
3. Verify that the custom report is based on a single dimension, the Tealeaf Session Identifier, which increases the efficiency of the data processing and decreases the chance of data loss due to reaching the table limits.

Report export

The next step in the process is to export the report as a .CSV, after which it can be retrieved and made available to the directory used by the Segment Builder Service on the Tealeaf server.

The following report export methods are supported:

1. **Ad-Hoc export:** Any report in WebTrends can be exported on an ad-hoc basis to a basic .CSV file. This report can be saved as a file, sent via email or sent to an FTP server. See “Ad-hoc export.”
2. **Scheduled export:** You may export as a .CSV file to an FTP location or via email. See “Scheduled export.”

Ad-hoc export

To export the report in .CSV format to a file, email or FTP location, please complete the following steps.

Steps:

The ad-hoc export process is as follows:

1. When viewing the report in WebTrends, click **Export Reports** at the top of the screen.
2. Select **CSV File**.
3. De-select **Export Enhanced csv data**.
4. Select the number of rows required for the first and (if applicable) second dimensions.
 - To select all rows, use the * wildcard.
5. Select the method of export:
 - Saved to File
 - Sent via email
 - sent via FTP
6. At this point, you may define the export file location, define an FTP server location or define the email recipients for the report.
7. To export the configured report, click **Export Now**.

Note: If you do not have the WebTrends Report Exporter client installed on your local desktop, you must download and install it. This process may take a few minutes.

8. The report is downloaded, emailed or FTP'ed to the designated destinations.
 - If you chose to download the report to a local file, it is loaded in Microsoft Excel.
9. You may now import the report as a Tealeaf segment. See “Import report as Tealeaf segment” on page 22.

Scheduled export

WebTrends provides a scheduled data export facility that can export as a .CSV file to a nominated FTP location or as an email to designated recipients on a scheduled basis.

Steps:

The process for creating this scheduled report in WebTrends is as follows:

1. Create a new Scheduled Job in WebTrends.
2. Select Reporting Profile to be used.

3. Select an output type of .CSV.
4. Define FTP or Email Destination of Report.
5. Select Report Template. A template is a WebTrends technique for grouping reports together in a table of contents that provides a pre-configured view onto the reports for users.
6. Select Report to be Exported.
7. Define the Time Range for report.
8. Define the schedule for report to be exported.
9. When the configured schedule time is reached, the report is generated and exported to the designated directory.
10. You may now import the report as a Tealeaf segment. See "Import report as Tealeaf segment."

Import report as Tealeaf segment

To import the exported report into Tealeaf as a segment, the .CSV file must be copied to a specific directory in the Tealeaf directory structure, or you can import the .CSV through the Tealeaf Portal on an ad-hoc basis.

Note: You must perform this copy from the output directory to the Tealeaf directory. A number of automated tools can be configured to automate this copy.

Ad-hoc import

You can import individual .CSV files through the Tealeaf Portal through the Manage Session Segments page.

To import a segment file

1. From the Portal menu, select **Analyze > Segments > Manage Session Segments**.
2. Click **Import Segment**.
3. Navigate your local computer to find the .CSV file to import.
4. Specify import properties as needed.
5. Click **Upload**. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.

Importing in batch mode through the Segment Builder Service

Note: When segments are imported through the Segment Builder Service, they utilize all of the configured properties in the Portal. These properties should be reviewed before you import any segments. See "CX Settings" in the *IBM Tealeaf cxImpact Administration Manual*.

On the Tealeaf server, you must copy the .CSV file to the following directory:

```
<Tealeaf install directory>\Integration\Segments
```

When the .CSV file is copied to the above directory, the Segment Builder Service renders into a segment. You can determine when the segment has been completed by checking the following directory:

```
<Tealeaf install directory>\Integration\Completed
```

See "Segment Builder Service" in the *IBM Tealeaf cxConnect for Web Analytics Administration Manual*.

Accessing the imported segment

When the segment has been created in Tealeaf, you can see this segment under the **Analyze > Segments > Manage Segments** menu.

- You may choose to list the sessions for this segment or to replay specific sessions.
- You may also analyze this segment to understand factors and patterns that are common between the sessions in the segment. See "Managing Session Segments" in the *IBM Tealeaf cxResults User Manual*.

Chapter 7. IBM Tealeaf documentation and help

IBM Tealeaf provides documentation and help for users, developers, and administrators.

Viewing product documentation

All IBM Tealeaf product documentation is available at the following website:

<https://tealeaf.support.ibmcloud.com/>

Use the information in the following table to view the product documentation for IBM Tealeaf:

Table 3. Getting help

To view...	Do this...
Product documentation	On the IBM Tealeaf portal, go to ? > Product Documentation .
Help for a page on the IBM Tealeaf Portal	On the IBM Tealeaf portal, go to ? > Help for This Page .

Available documents for IBM Tealeaf products

Use the following table to view a list of available documents for all IBM Tealeaf products:

Table 4. Available documentation for IBM Tealeaf products

IBM Tealeaf products	Available documents
IBM Tealeaf CX	• <i>IBM Tealeaf Customer Experience Overview Guide</i> • <i>IBM Tealeaf CX Client Framework Data Integration Guide</i> • <i>IBM Tealeaf CX Configuration Manual</i> • <i>IBM Tealeaf CX Cookie Injector Manual</i> • <i>IBM Tealeaf CX Databases Guide</i> • <i>IBM Tealeaf CX Event Manager Manual</i> • <i>IBM Tealeaf CX Glossary</i> • <i>IBM Tealeaf CX Installation Manual</i> • <i>IBM Tealeaf CX PCA Manual</i> • <i>IBM Tealeaf CX PCA Release Notes</i>

Table 4. Available documentation for IBM Tealeaf products (continued)

IBM Tealeaf products	Available documents
IBM Tealeaf CX	• IBM Tealeaf CX RealTime Viewer Client Side Capture Manual • IBM Tealeaf CX RealTime Viewer User Manual • IBM Tealeaf CX Release Notes • IBM Tealeaf CX Release Upgrade Manual • IBM Tealeaf CX Support Troubleshooting FAQ • IBM Tealeaf CX Troubleshooting Guide • IBM Tealeaf CX UI Capture j2 Guide • IBM Tealeaf CX UI Capture j2 Release Notes
IBM Tealeaf cxImpact	• IBM Tealeaf cxImpact Administration Manual • IBM Tealeaf cxImpact User Manual • IBM Tealeaf cxImpact Reporting Guide
IBM Tealeaf cxConnect	• IBM Tealeaf cxConnect for Data Analysis Administration Manual • IBM Tealeaf cxConnect for Voice of Customer Administration Manual • IBM Tealeaf cxConnect for Web Analytics Administration Manual
IBM Tealeaf cxOverstat	IBM Tealeaf cxOverstat User Manual
IBM Tealeaf cxReveal	• IBM Tealeaf cxReveal Administration Manual • IBM Tealeaf cxReveal API Guide • IBM Tealeaf cxReveal User Manual
IBM Tealeaf cxVerify	IBM Tealeaf cxVerify Administration Manual
IBM Tealeaf cxView	IBM Tealeaf cxView User Manual
IBM Tealeaf CX Mobile	• IBM Tealeaf CX Mobile Android Logging Framework Guide • IBM Tealeaf Android Logging Framework Release Notes • IBM Tealeaf CX Mobile Administration Manual • IBM Tealeaf CX Mobile User Manual • IBM Tealeaf CX Mobile iOS Logging Framework Guide • IBM Tealeaf iOS Logging Framework Release Notes

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